

NISTTech

COMBINATORIAL CASSETTE AND PROCESS FOR SCREENING

Docket No. 14-018

Abstract

<p>We have invented a combinatorial cassette (combi-cassette) for high-throughput in vivo screening of osteogenesis. It is a piece of Teflon with small holes drilled into it. The holes can be packed with different formulations of stem cells, materials and growth factors and implanted subcutaneously into mice to screen for formulations that induce bone formation. The combi-cassette is advantageous over the current state of the art because 1) it increases through-put by increasing the number of implanted formulations, 2) lessens the contributions of animal to animal variability by enabling many formulations to be tested in the same mouse and 3) by making the histological analysis faster and more systematic by enabling all formulations to be captured in the same section and stained at the same time.</p>

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Status of Availability

This invention is available for licensing exclusively or non-exclusively in any field of use.

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